

Appln. No. 09/905,717

Amendment Date: January 18, 2005

Reply to Office Action of November 18, 2004

2. (Amended) A receiver as claimed in claim 1 wherein the tasks of spectral translation, of bandwidth reduction, and of interpolation to change sample rate by a rational ratio are embedded in a resampling polyphase filter bank, and

a [the] single polyphase filter can operate in a non-resampling mode so that the sample rate change is performed in a [the] post channelizer interpolator,

the single polyphase filter also operates in a resampling mode so that one part of the sample rate change is performed in the channelizer, and

another part is performed in the post channelizer interpolator.

3. (Amended) A receiver as claimed in claim 1 comprising [moving the]

input heterodynes for moving into and through the filtering operation so that the spectral translations occur after the filtering to permit a single filter to service multiple channels.

Cancel Claims 4 & 5.